



December 22, 2020

Kansas Corporation Commission  
1500 SW Arrowhead Road  
Topeka KS 66614

RE: In the Matter of the Investigation into the Sustainability Transformation Plan of  
Evergy Metro, Inc., Evergy Kansas Central, Inc., and Evergy Kansas South, Inc.  
(collectively Evergy); Docket No. 21-EKME-088-GIE

To whom it concerns:

Evergy is filing with the Commission the attached follow-up confidential and public  
material presented by Evergy at the conclusion of the workshop held on December 21, 2020 in  
the above-captioned docket.

Sincerely,

A handwritten signature in blue ink that reads "Cathryn Dinges".

Cathy Dinges,  
Corporate Counsel



# Sustainability Transformation Plan (STP)

*Operational Efficiency Workshop  
Supplemental Information*



# Grid Mod Workshop Follow-Up Topics

- Overview of expenditures by state
- Rate impacts by jurisdiction
- Layout of the capital plan views – merger to STP
- Capacity vs. energy mix
- Transmission spend – percentage of NTCs from SPP
- Percentage of transmission and distribution system included in the plan – approach to determining
- STP outputs – metrics and measures under consideration

# Overview of Capital Expenditures by State

STP Capital Expenditures *						
	Projected	Projected	Projected	Projected	Projected	Projected
In millions	2020	2021	2022	2023	2024	2020-2024
Kansas						
Generating Facilities: New Renewables						
Generating Facilities: Other						
Transmission & Distribution Facilities: FERC (a)						
Transmission & Distribution Facilities: Other						
General Facilities & Other						
Total						
Missouri						
Generating Facilities: New Renewables						
Generating Facilities: Other						
Transmission & Distribution Facilities: Other						
General Facilities & Other						
Total						

\*Excluding capitalized interest and liabilities paid

(a) State impact subject to cost-benefit analysis and allocation by Southwest Power Pool



# Rate Impact by Jurisdiction - Kansas

Kansas Central				
STP Retail Average Rate c/kWh	Projected 2020	Projected 2024	20-24 change	20-24 CAGR
BASE				
RECA				
TDC				
SPE				
PTS				
DSIM				
Average Retail Rate per KWh				

Kansas Metro				
STP Retail Average Rate c/kWh	Projected 2020	Projected 2024	20-24 change	20-24 CAGR
BASE				
ECA				
TDC				
PTS				
Average Retail Rate per KWh				

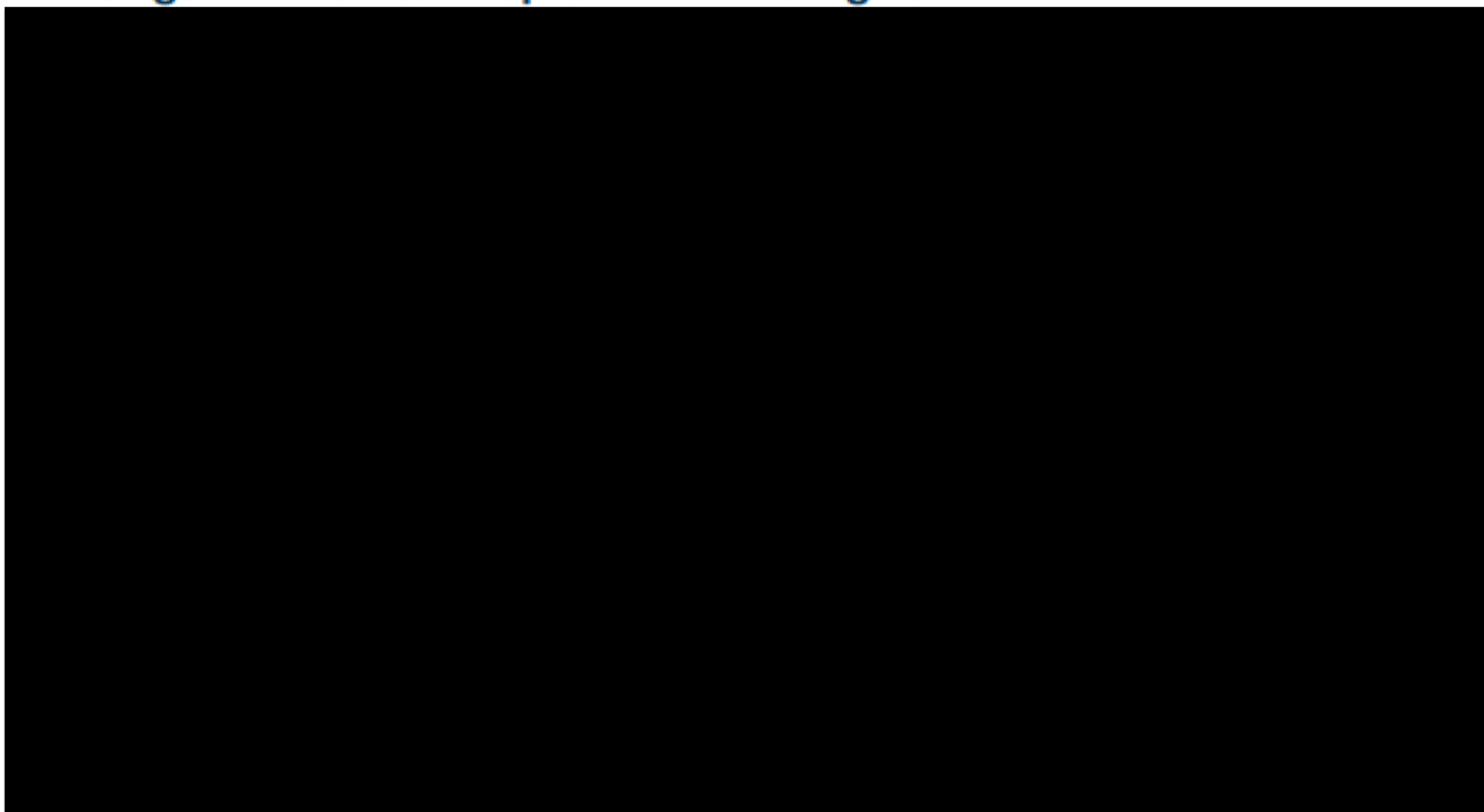
# Rate Impact by Jurisdiction - Missouri

Missouri Metro				
STP Retail Average Rate c/kWh	Projected 2020	Projected 2024	20-24 change	20-24 CAGR
BASE				
FAC				
PTS				
DSIM				
Average Retail Rate per KWh				

Missouri West				
STP Retail Average Rate c/kWh	Projected 2020	Projected 2024	20-24 change	20-24 CAGR
BASE				
RAC				
DSIM				
RESRAM				
Average Retail Rate per KWh				

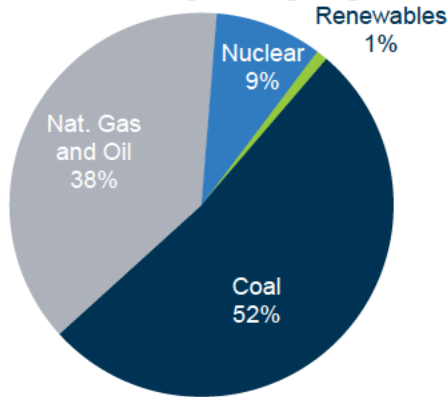
# Capital Plan Changes Since Evergy Formation

## Change in Five-Year Capital Plan Ending 2024

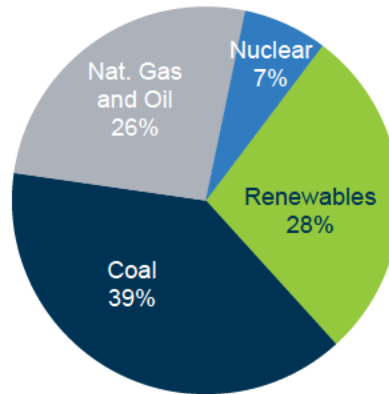


# Capacity vs. Energy Mix – Clean Energy Transition

## Generation Capacity by Fuel Type<sup>1,2</sup>

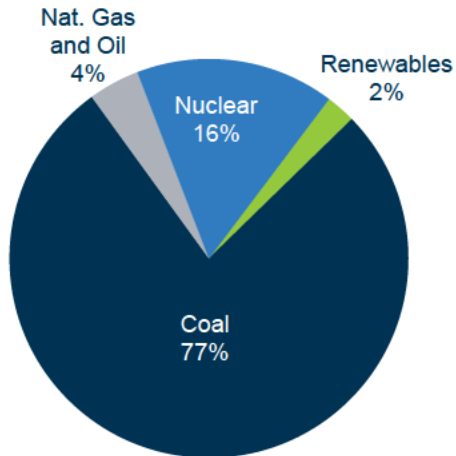


2010

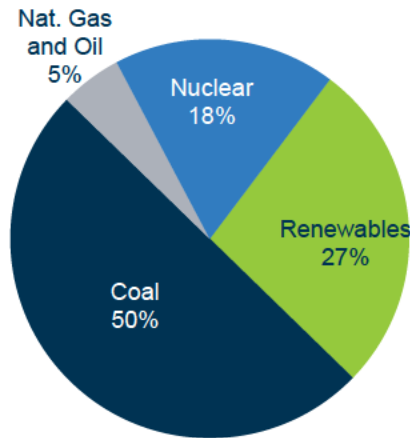


2020

## Energy Mix by Fuel Type<sup>1,2</sup>



2010



2019

### NOTE:

1. Renewables include both owned and power purchase agreements and are listed at nameplate.
2. Percentages may not add up to 100% due to rounding.
3. Ultimate resource plan and generation capacity will be defined through scenario analysis and in collaboration with stakeholders through IRP process.

STP Workshop – December 2020





## Discussion of Other Items

- Transmission spend – percentage of NTCs from SPP
- Percentage of transmission and distribution system included in the plan – approach to determining
- STP outputs – metrics and measures under consideration